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APPLICATION NO.	FILING DATE	· FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/829,209	04/22/2004	Chang Nam Kim	K-0632	5528	
34610	7590 10/19/2005	•	EXAMINER		
FLESHNER & KIM, LLP			TADESSE, YI	TADESSE, YEWEBDAR T	
P.O. BOX 221200 CHANTILLY, VA 20153			ART UNIT .	PAPER NUMBER	
CIM III III	, 111 20133		1734		
-			DATE MAILED: 10/19/200	DATE MAILED: 10/19/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)	
Office Action Summary		10/829,209	KIM, CHANG NAM	
		Examiner	Art Unit	
		Yewebdar T. Tadesse	1734	
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address	
A SH WHI(- Exte after - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DA nsions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Depriod for reply is specified above, the maximum statutory period ware to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communicatio D (35 U.S.C.§ 133).	
Status				:
2a)⊠	Responsive to communication(s) filed on This action is FINAL . 2b) This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro		5
Disposit	ion of Claims			
5)□ 6)⊠	Claim(s) 1,4,5,11 and 18-37 is/are pending in to 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 1,4,5,11 and 18-37 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	vn from consideration.	· ·	
Applicat	ion Papers			
10)	The specification is objected to by the Examiner The drawing(s) filed on is/are: a) acce Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction The oath or declaration is objected to by the Ex	epted or b) objected to by the Eddrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). lected to. See 37 CFR 1.121(d).
Priority (under 35 U.S.C. § 119			
12)□ a)l	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priorical application from the International Bureau See the attached detailed Office action for a list of	s have been received. s have been received in Applicati ity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage	
2) 🔲 Notic 3) 🔲 Infori	e of References Cited (PTO-892) se of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) or No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:		

DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 1,4 11, 18-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Suzuki et al (4,001,842) in view of Im et al (US 2002/0067117) and Yamauchi et al (US 4,168,450). Suzuki et al discloses (see Abstract and Figs 1-2) a shadow mask (25) for fabricating an organic electroluminescent device (screen), comprising: a plurality of striped slots or pattern holes aligned in uniformly running parallel to each other along x-axis and y-axis (apertures 31having a pattern, see Figs 1-2) and a plurality of bridges (32) dividing the striped slots in pixel units (apertures 31 arranged in rows being separated with bridge) and the hole patterns has a shape and a size corresponding to a pixel region (color-emitting stripe 24) of the organic electroluminescent device. Suzuki et al lacks teaching striped slots or holes having a plurality of angled surfaces formed on

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each side of each upper and lower portion of each slot and wherein the upper and the lower inclined surface areas are different from each other with width or height and a plurality of bridges located between adjacent slots of the plurality of slots and wherein the bridge has angled surface portions formed on each inner side surface thereof. However, in the production of mask assembly it is well known to form slots having inclined surfaces formed on each side of slot or hole; for instance - Im et al discloses (see Fig 10A) a mask assembly having slots or holes having symmetric angled upper and lower surfaces (102a, 103b and 103a, 103b respectively) wherein the surface area of the upper angled surface is the same as the lower angled surface, (see Fig 10b) wherein the surface area of the first and the second upper angled surfaces is different from the surface area of the first and the second lower angled surface. It would have been obvious to one of ordinary skill in the art at the time the invention was made to include slots having a plurality of angled surfaces with different width and height formed on each side of the upper and lower portion of each slot in Suzuki et al to prevent an electron beam from colliding with the strip of the slot as taught by Im et al. As to the bridge having angled surface portion, Yamauchi et al discloses (see Fig 6). It would have been obvious to one of ordinary skill in the art at the time the invention was made to include a plurality of bridges having angled surface portion to determine the incident angle of the electron beam impinging the bridge.

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3. Claims 29-33 and 35-36 are rejected under 35 U.S.C. 103(a) as being unpatentable Suzuki et al (4,001,842) in view of Yamauchi et al (US 4,168,450) and Wolk et al (US 6,485,884).

Suzuki et al and Yamauchi et al are cited for the same reasons describe above. Suzuki et al lacks teaching an alignment of a plurality of strip-type slots is different or same from an alignment of a second of the plurality of strip-type slots. Wolk et al discloses (see column 23-24, lines 53-67 and 1-6 respectively) shadow mask slots (holes) having different or same alignment (different orientation). It would have been obvious to one of ordinary skill in the art at the time the invention was made to include different or same alignment of a plurality of slot in Suzuki et al to form a wide variety of EL devices.

4. Claims 28,34 and 37 are rejected under 35 U.S.C. 103(a) as being unpatentable over Suzuki et al (4,001,842) in view of Im et al (US 2002/0067117) or as applied to claim 1 or Suzuki et al (4,001,842) in view of Yamauchi et al (US 4,168,450) and Wolk et al (US 6,485,884) as applied to claim 29 above, and further in view of KR 2001 087952. Suzuki et al lacks shapes of strip-type slots of the type being oval, polygonal or circular. KR'952 discloses such shapes (see drawing). It would have been obvious to one of ordinary skill in the art at the time the invention was made to include slots having oval, polygonal or circular shape as desired.

Response to Arguments

5. Applicant's arguments have been considered but are moot in view of the new ground(s) of rejection.

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yewebdar T. Tadesse whose telephone number is (571) 272-1238. The examiner can normally be reached on Monday-Friday 8:00 AM-4: 30 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chris Fiorilla can be reached on (571) 272-1187. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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LAURA EDWARDS PRIMARY EXAMINER